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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of
Gerald Michalak

Serial No.: **10/736,814**
Filed: December 16, 2003

For: **Integrated Wireless Headset**

Docket No: **2002-030**

PATENT PENDING

Examiner: Marceau Milord

Group Art Unit: 2618

Confirmation No.: 5394

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February 9, 2009

Date

Jennifer K. Stewart

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AFTER FINAL RESPONSE

In response to the Supplemental Notice of Allowance mailed 30 January 2009, the applicant submits the following amendments under 37 CFR 1.312. The marked-up claim amendments only show the corrections made by this response to the Examiner's Amendment filed 30 January 2009.

AMENDMENTS TO THE CLAIMS

1. (Previously Presented) A mobile device comprising:
 - a mobile terminal with an associated housing;
 - a wireless headset including a speaker and a microphone;
 - a fastener disposed on the housing for mechanically connecting the wireless headset to the housing; and
 - a detector circuit to determine a position of the wireless headset relative to the mobile terminal, wherein the mobile device automatically selects an electrical interface operating mode for communicating with the wireless headset when the detector circuit determines that the wireless headset is mechanically connected to the mobile terminal, and wherein the mobile device automatically selects a wireless interface operating mode for communicating with the wireless headset when the detector circuit determines that the wireless headset is mechanically disconnected from the mobile terminal.
2. Cancel
3. (Currently Amended) The mobile device of ~~claim 2~~ claim 1 wherein the electrical interface operating mode and wireless interface operating mode comprise respective first and second operating modes, wherein the wireless headset is adapted to operate in the first operating mode when mechanically connected to the housing and further wherein the wireless headset is adapted to operate in the second operating mode when mechanically disconnected from the housing.

4. (Currently Amended) The mobile device of ~~claim 4~~ claim 3 wherein the wireless headset interfaces with the mobile terminal via the wireless ~~a wireless~~ interface when said wireless headset is operating in the second operating mode.
5. (Currently Amended) The mobile device of ~~claim 4~~ claim 3 wherein the wireless headset interfaces with the mobile terminal via the electrical ~~an electrical~~ interface when said wireless headset is operating in the first operating mode.
6. (Original) The mobile device of claim 5 further comprising a first electrical contact disposed on the housing and a second electrical contact disposed on the wireless headset, wherein the first electrical contact electrically connects to the second electrical contact when said wireless headset is operating in the first operating mode.
7. (Previously Presented) The mobile device of claim 1 wherein the fastener comprises a recess disposed on the housing for receiving the wireless headset.
8. (Original) The mobile device of claim 7 wherein the recess is configured to secure the wireless headset to the housing.
9. (Original) The mobile device of claim 7 wherein the recess is configured to frictionally secure the wireless headset to the housing.
10. (Original) The mobile device of claim 7 wherein the wireless headset mechanically connects to the housing when the wireless headset is secured within said recess.

11. (Original) The mobile device of claim 7 wherein the wireless headset is flush with the housing when the wireless headset is secured within said recess.
12. (Original) The mobile device of claim 7 wherein the fastener further comprises a cutout in a side of the housing adjacent said recess.
13. (Original) The mobile device of claim 12 wherein the speaker is disposed within the cutout when the wireless headset is secured within said recess.
14. (Original) The mobile device of claim 12 wherein the microphone is disposed within the cutout when the wireless headset is secured within said recess.
15. (Original) The mobile device of claim 7 wherein the recess is disposed on a back of the housing.
16. (Original) The mobile device of claim 15 wherein said recess is further disposed on at least one of a top, a front, and a side of the housing.
17. (Previously Presented) The mobile device of claim 1 wherein the speaker is disposed proximate a top of the housing when the wireless headset is mechanically connected to the housing.
18. (Previously Presented) The mobile device of claim 1 wherein the microphone is disposed proximate a bottom portion of the housing when the wireless headset is mechanically connected to the housing.

19. (Previously Presented) The mobile device of claim 1 wherein the microphone is disposed proximate a side of the housing when the wireless headset is mechanically connected to the housing.
20. (Original) The mobile device of claim 1 wherein the housing further includes a wireless headset locator control.
21. (Original) The mobile device of claim 20 wherein the wireless headset projects a locator signal when a user activates the wireless headset locator control.
22. (Original) The mobile device of claim 1 wherein the mobile terminal comprises a cellular telephone.
23. (Original) The mobile device of claim 3 wherein in the first mode the wireless headset is fastened to the housing such that the housing and the wireless headset form a single unit.
24. (Original) The mobile device of claim 23 wherein both the housing and the wireless headset each include at least one electrical contact such that when the wireless headset is fastened to the housing, electrical signals are transferred between the mobile terminal and the wireless headset.
25. (Original) The mobile device of claim 24 wherein when the wireless headset is fastened to the housing and operating in the first mode, the speaker and microphone of the wireless headset function as the speaker and microphone for the mobile terminal.

26. (Original) The mobile device of claim 25 wherein the mobile terminal does not include a speaker and microphone in the housing and therefore is incapable of communicating audible signals with a user except in conjunction with the wireless headset.

27. – 29. Cancel

30. (Previously Presented) The mobile terminal of claim 49 wherein the mobile terminal establishes the wireless interface between the mobile terminal and the headset when the detector circuit determines that the headset is mechanically disconnected from the mobile terminal.

31. (Previously Presented) The mobile terminal of claim 49 wherein the mobile terminal establishes the electrical interface between the mobile terminal and the headset when the detector circuit determines that the headset is mechanically connected to the mobile terminal.

32. (Previously Presented) The mobile terminal of claim 31 wherein the detector circuit determines that the headset is mechanically connected to the mobile terminal when the detector circuit detects electrical current flow between the mobile terminal and the headset.

33. (Previously Presented) The mobile terminal of claim 32 wherein the detector circuit detects electrical current flow between the mobile terminal and the headset by detecting electrical current flow between mobile terminal circuitry and headset circuitry.

34. – 41. Cancel

42. (Previously Presented) The mobile device of claim 1 wherein the detector circuit determines that the headset is mechanically connected to the mobile terminal when the detector circuit detects an electrical current flow between the mobile terminal and the headset.

43. Cancel

44. (Previously Presented) The mobile device of claim 1 wherein the headset is mechanically connected to the mobile terminal when the headset is secured within a recess disposed in at least one side of a housing of the mobile terminal.

45. (Original) The mobile device of claim 44 further comprising:
a first electrical contact disposed on a surface of the recess;
a second electrical contact disposed on a surface of the headset; and
wherein the first electrical contact electrically connects to the second electrical contact
when the headset is secured within the recess.

46. (Original) The mobile device of claim 44 wherein the recess frictionally secures the headset to the housing.

47. – 48. Cancel

49. (Previously Presented) A mobile terminal comprising:
a headset comprising a speaker for projecting audible signals to a user and a
microphone for receiving audible signals from the user;

wherein said speaker and microphone interface with the mobile terminal via an electrical interface when said speaker and microphone are mechanically connected to the mobile terminal;

wherein said speaker and microphone interface with the mobile terminal via a wireless interface when said speaker and microphone are mechanically disconnected from the mobile terminal; and

a detector circuit to determine a position of the headset relative to the mobile terminal, wherein the mobile terminal automatically establishes a wireless or electrical interface between the mobile terminal and the headset responsive to the determined position.

50. (Original) The mobile terminal of claim 49 wherein the wireless interface comprises a short-range wireless network.

51. (Original) The mobile terminal of claim 50 wherein the short-range wireless network comprises a short-range ad hoc wireless network.

52. (Original) The mobile terminal of claim 49 wherein the speaker and microphone are disposed in a wireless headset.

53. (Original) The mobile terminal of claim 52 wherein the speaker and microphone are mechanically disconnected from the mobile terminal when the wireless headset is mechanically disconnected from the mobile terminal.

54. (Original) The mobile terminal of claim 52 wherein the speaker and microphone are mechanically connected to the mobile terminal when the wireless headset is mechanically connected to the mobile terminal.

55. (Original) The mobile terminal of claim 54 wherein the wireless headset mechanically connects to the mobile terminal when the wireless headset is secured within a recess on a housing of the mobile terminal.

56. (Original) The mobile terminal of claim 55 wherein the recess frictionally secures the wireless headset to the housing.

57. (Original) The mobile terminal of claim 52 wherein the wireless headset further includes audio processing circuitry to process the audible signals.

58. (Original) The mobile terminal of claim 57 wherein the audio processing circuitry interfaces with the mobile terminal via the electrical interface when the speaker and microphone are mechanically connected to the mobile terminal.

59. (Original) The mobile terminal of claim 57 wherein the audio processing circuitry interfaces with the mobile terminal via the wireless interface when the speaker and microphone are mechanically disconnected from the mobile terminal.

60. – 62. Cancel

63. (Original) The mobile terminal of claim 52 further comprising a headset locator wherein the speaker projects a locator signal when the headset locator is activated.

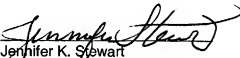
REMARKS

In response to the Supplemental Notice of Allowance mailed 30 January 2009, the applicant amends claims 3 – 5 to correct the claim dependencies and to correct minor typographical errors. No new matter is added.

While no fees should be required for this response, if any fees are required please charge them to Deposit Account No. 18-1167.

Respectfully submitted,

COATS & BENNETT, P.L.L.C.


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